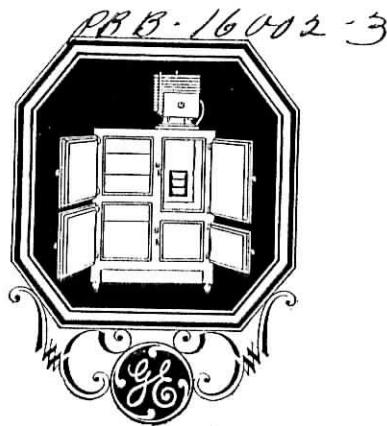


GENERAL ELECTRIC REFRIGERATOR



CATALOG

GENERAL ELECTRIC COMPANY

Electric Refrigerator Division
Central Station Department
SCHENECTADY, N. Y.

April, 1926

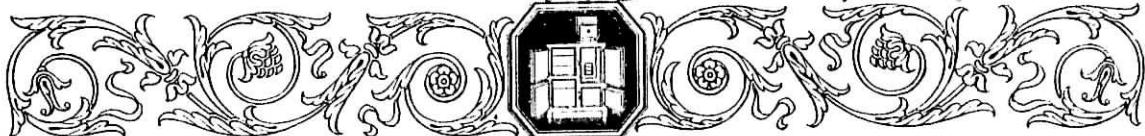
Bulletin GEA-273
Supersedes Bulletin GEA-199

The refrigerators described in this publication have been made possible through the extensive research facilities, modern manufacturing methods and unusual engineering experience of the General Electric Company.

Special attention is called to the advantages which accrue only when the mechanical unit is placed above the refrigerating chamber.

GENERAL ELECTRIC REFRIGERATOR

PBC-12612-1



WITH the exception of pure air, there is probably nothing more necessary for the preservation of life than pure food. Our habits of life require us to partake of food at regular intervals, in order to preserve bodily strength. The business of supplying food is the most important thing of modern life and closely allied with it is the proper storage and preservation.

As the years have gone on, more improved methods have been employed in order to properly preserve the quality of perishable foods. The covered dish placed in the damp cellar gave way to the wholesale production of artificial ice. With the construction of large storage plants and a consequent demand for large quantities of ice, the mechanical method of refrigeration was developed on a large scale.

In the home, at the same time, the refrigerator has developed from the crude ice chest of a few years ago to the scientifically designed refrigerator of the present day.

Just as the vacuum cleaner has replaced the broom; the electric washer the scrubbing board; the sewing machine the needle; so is the electric refrigerator replacing the ice-charged refrigerator.

The advent of electric refrigeration has eliminated many inconveniences and made possible extended absence without interfering with food preservation, as well as providing a more economical and far more satisfactory method of refrigeration than has ever been available.

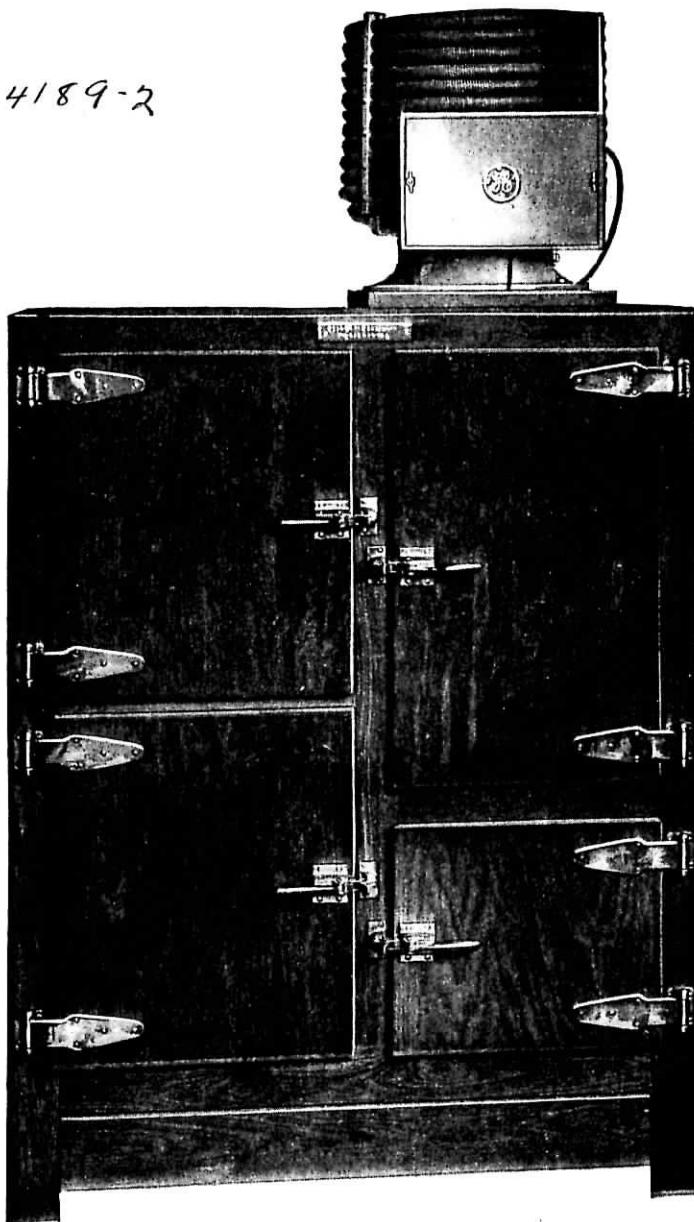
Appreciating the tremendous advantage and convenience of electrical refrigeration as well as the necessity for proper refrigeration, the General Electric Company has been carefully investigating and carrying on extensive electrical refrigeration research for a number of years.

The result is an electric refrigerator, unique in simplicity, positive in operation, efficient in refrigeration and requiring little manual attention. It is entirely automatic, self-lubricating and economical in operation.

It has an electrical mechanism which operates only enough to keep the cabinet at the proper refrigerating temperatures at all times. Since it stops and starts automatically, and operates only when necessary, there is no waste in the use of electric power. And since the cabinet is thus kept constantly at the ideal refrigerating temperature, there is no loss of food by spoilage.

GENERAL ELECTRIC REFRIGERATOR

384189-2



A14 NATURAL OAK FINISH REFRIGERATOR
For Specifications, refer to Page 6

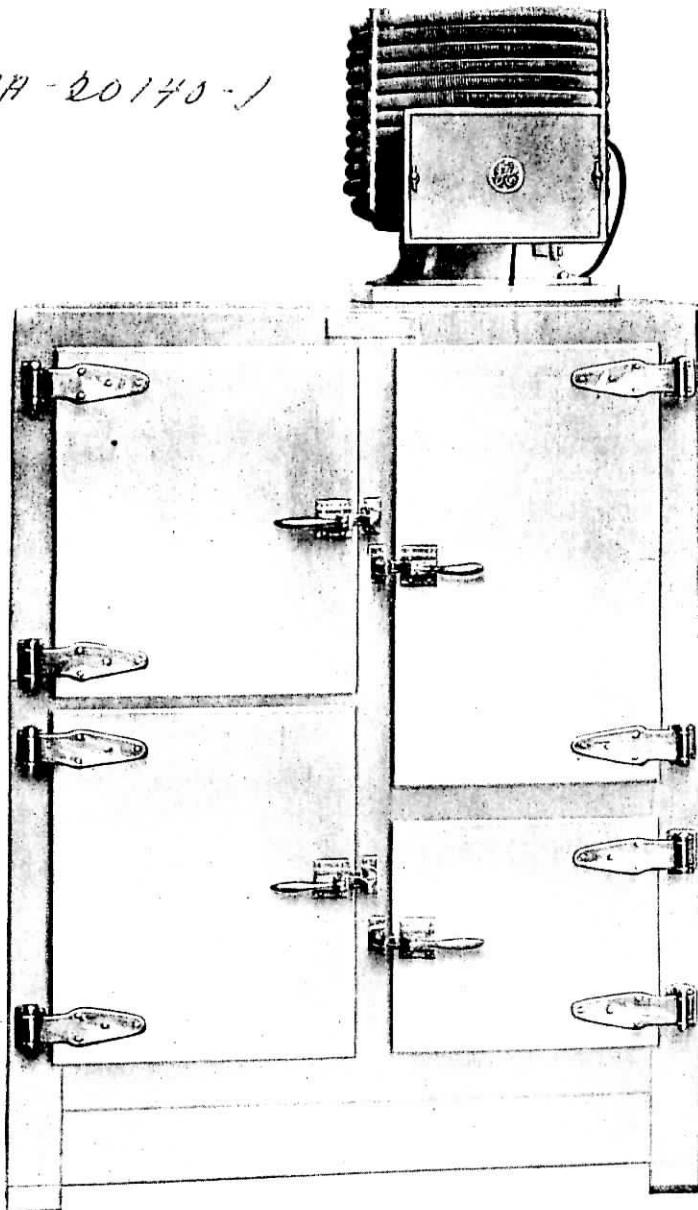
A GOOD refrigerator cabinet is equally as important as a good refrigerating unit. The cabinets used with the General Electric Refrigerator are manufactured to exacting specifications which have been determined by exhaustive research and tests.

Cabinets are furnished in two finishes—a natural light oak varnish finish, assuring lifetime durability, and an ivory white enamel finish of most pleasing appearance. These cabinets are amply insulated with best quality cork board having low conductivity, reducing heat leakage to a minimum and insuring a considerable saving in power costs and food spoilage.

The interior of the cabinet is made of one piece sheet steel with rounded corners onto which has been fused a white vitreous porcelain—a smooth, hard finish, to which dirt will not adhere and which will not easily chip or crack.

GENERAL ELECTRIC REFRIGERATOR

PBH-20140-1



B14 IVORY ENAMEL FINISH REFRIGERATOR
For Specifications, refer to Page 6

The doors are insulated in the same manner as the rest of the cabinet and are constructed to insure maximum insulation when closed. All exposed wood has been specially treated to preclude the possibility of food odor and moisture absorption.

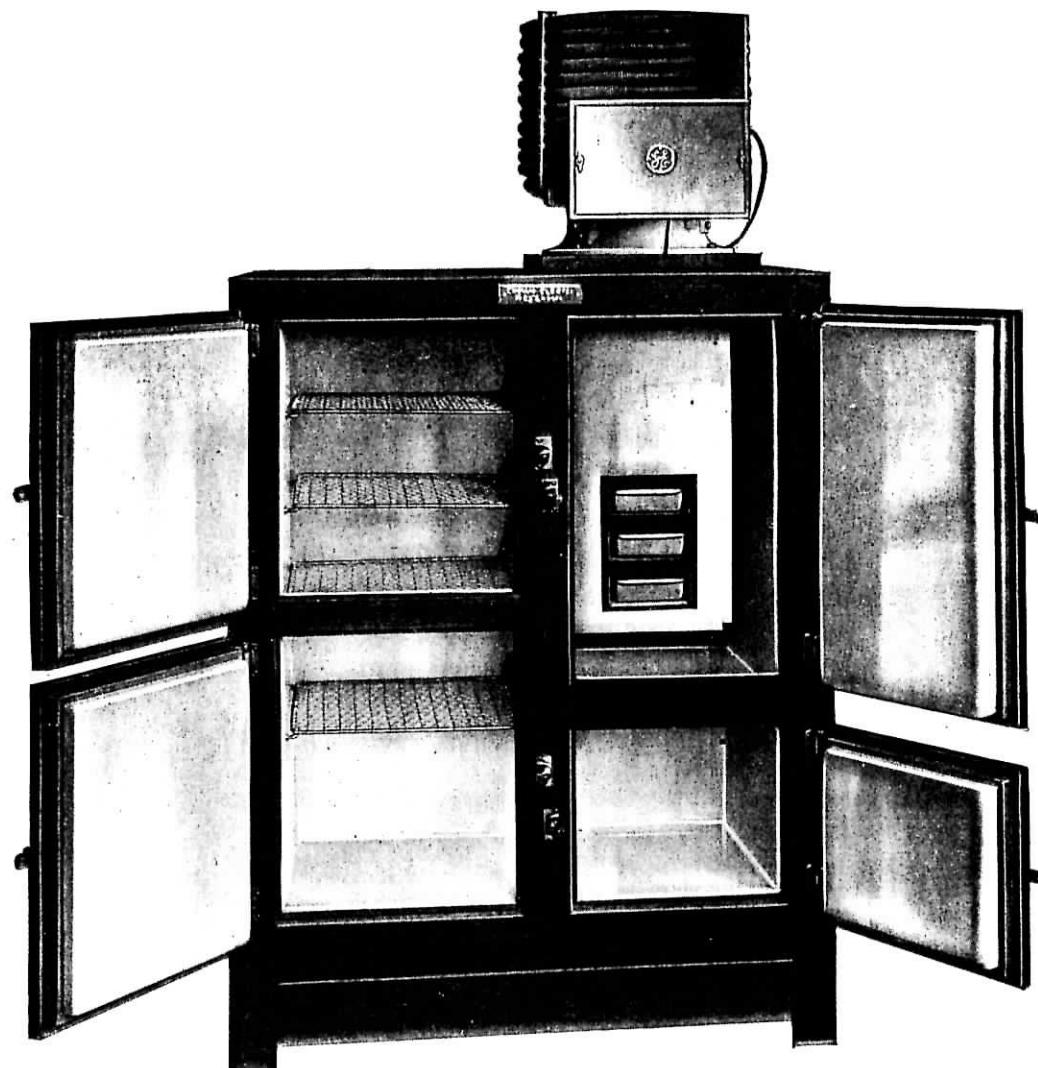
The food racks are easily removable, allowing access to every part of the interior.

Hinges, locks and catches are of heavily nickelized spring brass.

Ample space is provided between the cooling tank and the interior lining of the cabinet to permit of easy cleaning. Both the cooling tank and interior lining are finished in fused-on vitreous porcelain, making a glassy white dirt-resisting surface, easily cleaned with a damp cloth. The removable shelves are of heavily woven wire, rust resisting and so constructed as to prevent the accumulation of dirt. Every precaution has been taken to meet the exacting requirements of complete sanitation.

GENERAL ELECTRIC REFRIGERATOR

384190-3



A14 NATURAL OAK FINISH REFRIGERATOR

DEPTH OVER FITTINGS..... $25\frac{5}{8}$ inches
 WIDTH.....41 inches
 HEIGHT OF BOX..... $53\frac{3}{4}$ inches
 HEIGHT OF UNIT ABOVE BOX.....20 inches

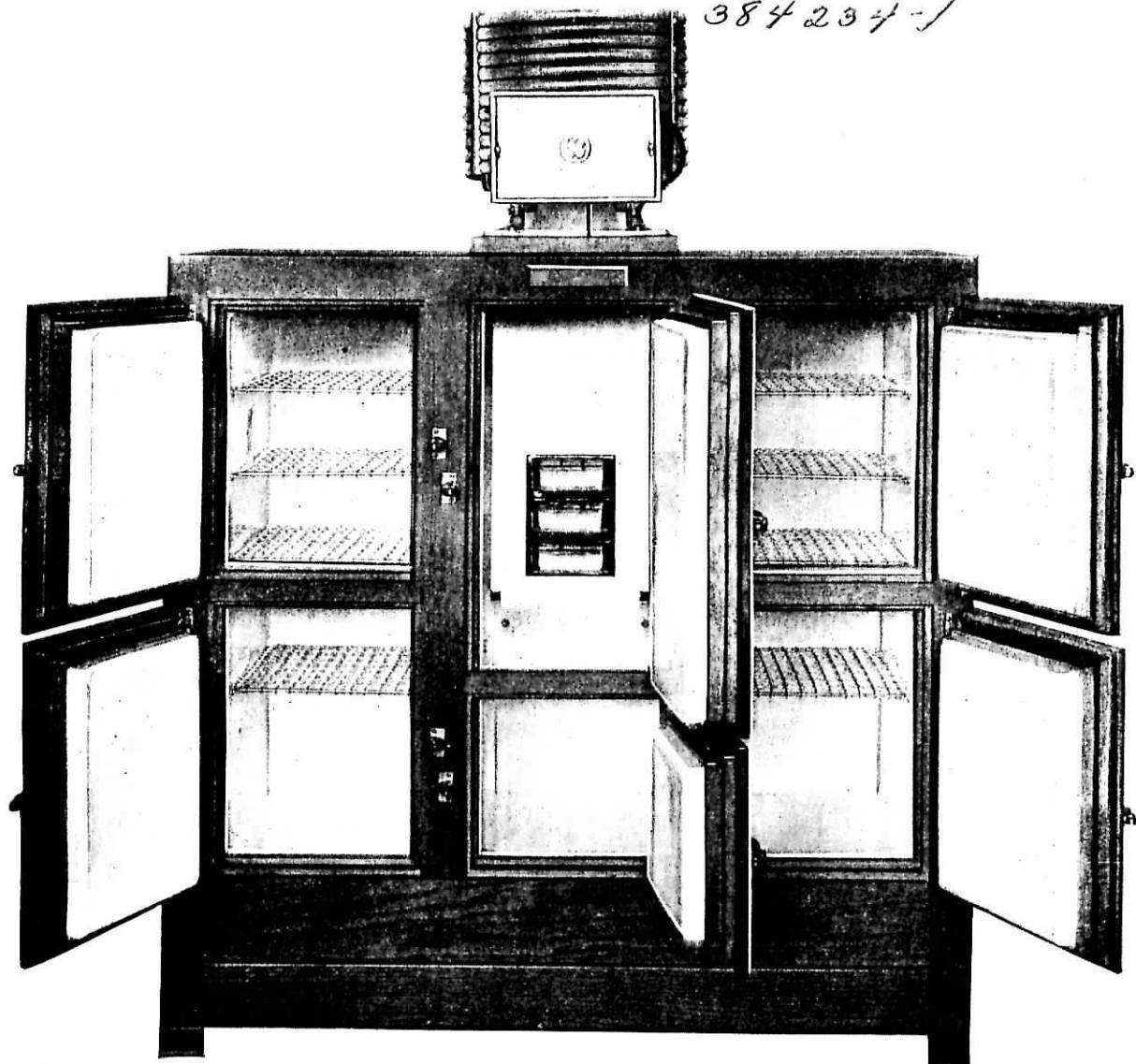
SQUARE FEET OF SHELF SPACE.....12
 TOTAL CUBIC CAPACITY.....14
 CUBIC FEET OF STORAGE SPACE.....9
 TOTAL WEIGHT INSTALLED.....666 pounds

CABINET CONSTRUCTION

LINING.....Vitreous porcelain fused on steel
 INSULATION.....2-inch sheet corkboard

GENERAL ELECTRIC REFRIGERATOR

384234-1



A20 NATURAL OAK FINISH REFRIGERATOR

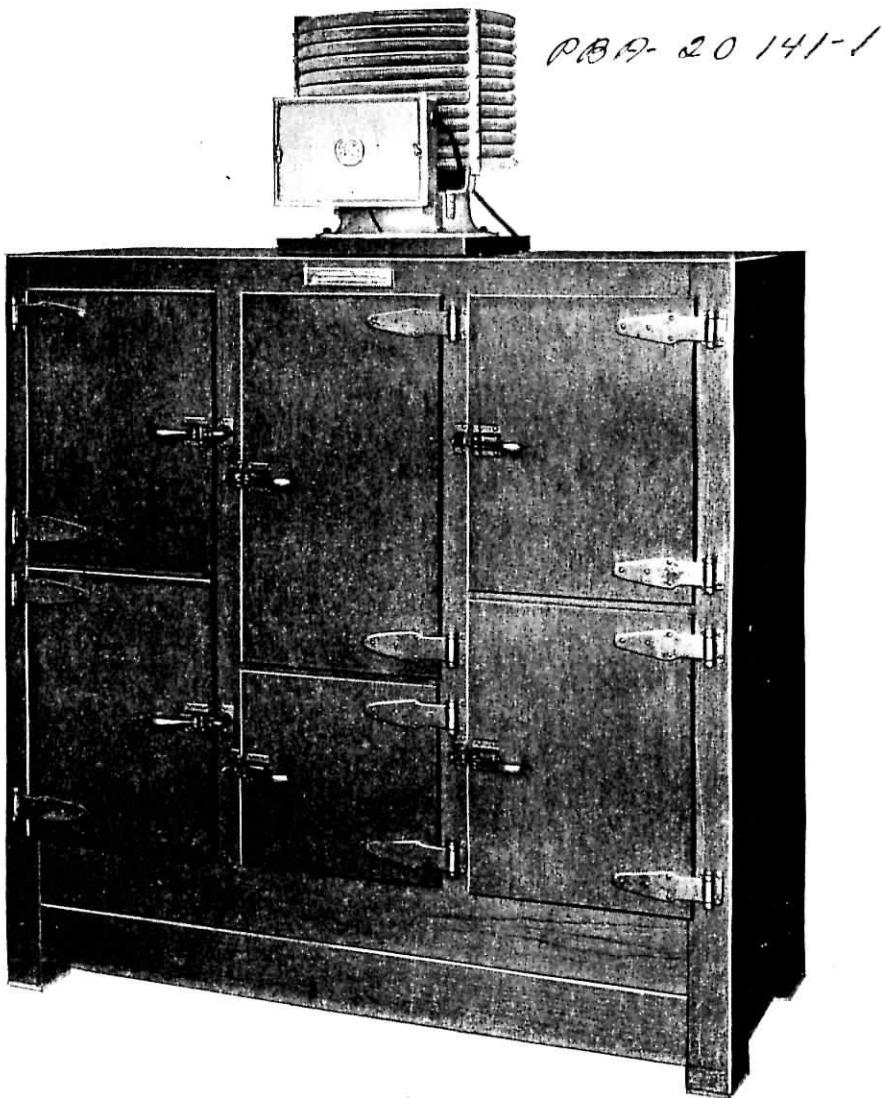
DEPTH OVER FITTINGS.....26 inches
 WIDTH.....60 inches
 HEIGHT OF BOX.....56 inches
 HEIGHT OF UNIT ABOVE BOX.....20 inches

SQUARE FEET OF SHELF SPACE.....22
 TOTAL CUBIC CAPACITY.....20
 CUBIC FEET OF STORAGE SPACE.....15
 TOTAL WEIGHT INSTALLED.....880 pounds

CABINET CONSTRUCTION

LINING....Vitreous porcelain fused on steel
 INSULATION.....3-inch sheet corkboard

GENERAL ELECTRIC REFRIGERATOR



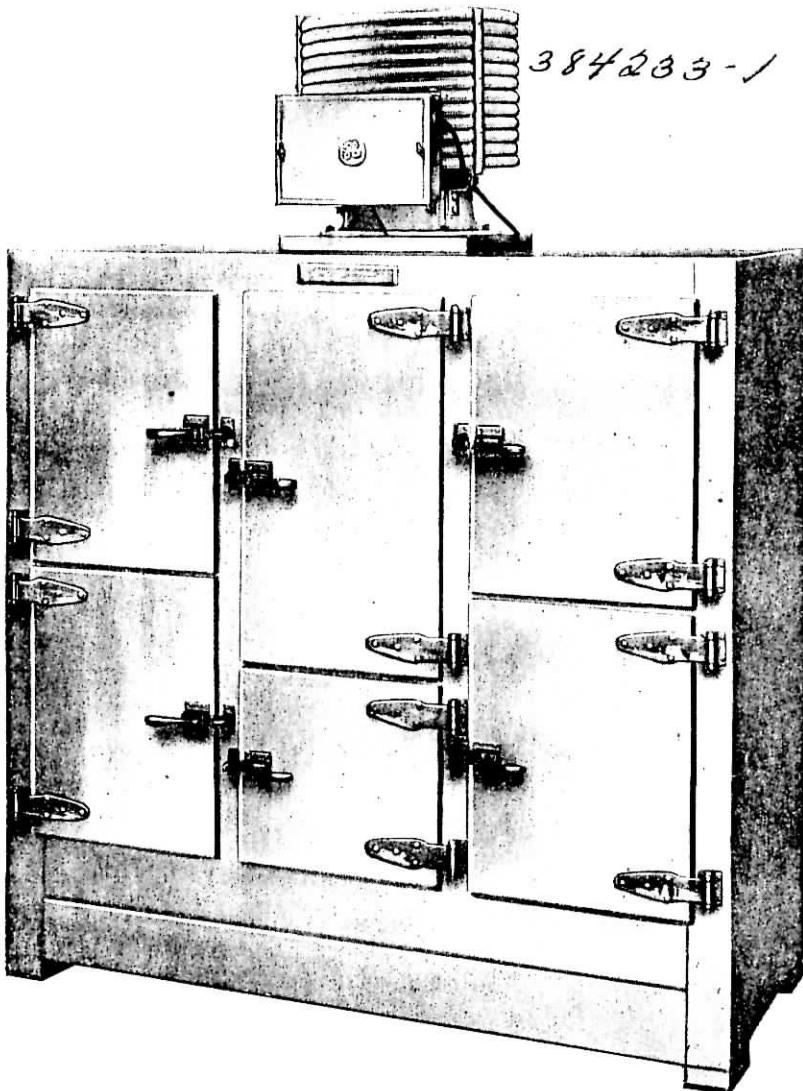
A20 NATURAL OAK FINISH REFRIGERATOR
For Specifications, refer to Page 7

FOOD to be properly preserved must be kept at temperatures between 40 and 50 degrees Fahrenheit. Above 50 degrees Fahrenheit the growth of bacteria is very rapid, while below 50 degrees this growth is held markedly in check. The dry atmosphere in an electric refrigerator tends to check the breeding of germs and prevents the conveyance of odors from one food to another.

The General Electric Refrigerator keeps the atmosphere of the cabinet at a constant, dry temperature below 50 degrees, thereby stopping the growth of decay bacteria. This means that milk will stay fresh and sweet for days; that fruits and vegetables will not decay; that meat will remain palatable for a long time.

Instead of an atmosphere which is moist at all times, there is one of complete dryness. The moisture is drawn to the cooling tank where it is deposited in the form of frost. The result is an air as clear, dry and sparkling as that of a winter morning.

GENERAL ELECTRIC REFRIGERATOR



B20 IVORY ENAMEL FINISH REFRIGERATOR

For Specifications, refer to Page 7

Crystal clear cubes of ice just the size for tumblers can be made from pure water. Ices, as well as mousses, sherbets, frozen fruits and other delightful dishes are easily frozen in the General Electric Refrigerator. Space for the freezing of sixty-three cubes of ice or other frozen delicacies is provided in the three ice trays. There is also an additional storage space for twenty pounds of ice cubes—ample for the freezing of ice cream or other ice-requiring desserts.

Are you crowding food into your refrigerator, pyramiding dishes on bowls, and even leaving some outside?

No need—for the General Electric Refrigerator has liberal capacity for several days' supply. Food stuffs may be arranged conveniently within its spacious, clean, porcelain compartments, and the housewife need go to market only twice a week. What an opportunity to take advantage of the best days, the better choice of supplies, less crowded stores and special days of bargain prices! What an assurance of properly kept food, always on hand for use at a moment's notice!

GENERAL ELECTRIC REFRIGERATOR

384193-4



REFRIGERATING UNIT Consisting of the Evaporator Coil, Condenser Coil and Control (Motor and Compressor are Mounted within the Condenser Coil)

5. A float valve to regulate the amount of refrigerant passing to the evaporator coils.
6. An evaporator coil of copper tubing immersed in the brine tank.
7. An automatic regulating control.

HOW IT OPERATES

The cycle of operation is as follows:

The heat in the refrigerator cabinet is transferred to the cooling tank by convection. This heat is then extracted from the brine by the boiling of the liquid. In order that this boiling or evaporation may continue, it is necessary to maintain a low pressure. This is done by the suction end of the compressor.

The pressure of the gas is raised by the compressor and passes to the condenser coil, where it liquifies and is deposited in the float chamber. When sufficient liquid has collected in the float chamber, it again enters the evaporator coil and the process is repeated.

REFRIGERATING UNIT

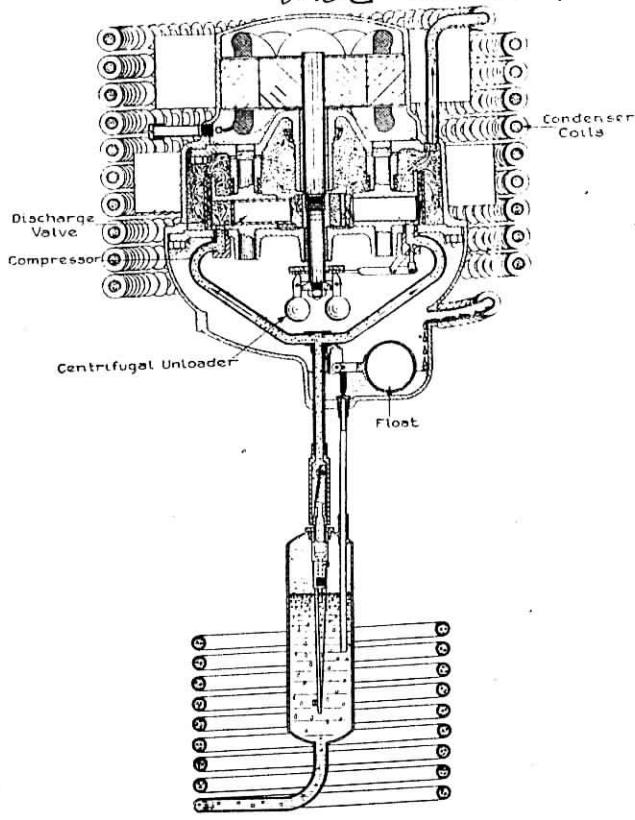
The General Electric Refrigerator is unique in its simplicity and freedom from need of attention.

All moving parts are hermetically sealed in a drawn steel case containing the refrigerant and the lubricant. The condenser and evaporator coils are brazed to the steel casing. Specially developed insulated leads, similar to spark plugs, are used for the electrical connection to the motor. This construction permits complete enclosure and the elimination of the stuffing box through which gas or oil might leak. There is no external piping, cooling fan, belt or other external moving part.

The essential operating parts consist of:

1. A special 110-volt, 60-cycle, a-c. split-phase motor, mounted vertically. This motor is exceedingly simple in design and sturdy in construction—without brushes or other moving contacts.
2. A two-cylinder, single-acting compressor having oscillating cylinders.
3. A discharge valve of spring steel so arranged as to eliminate noise.
4. A copper tube condenser coil of circular cross section.

PBC-50457-1



CYCLE OF OPERATION

384193-3

FREEZING UNIT

The cooling tank, which is suspended within the cabinet itself, is covered inside and out with white, fused-on, vitreous porcelain—long wearing and easy to clean. Three freezing trays, having a capacity of seven pounds of ice cubes, can be slipped into compartments in the tank. These trays are of heavily tinned copper and are furnished with removable dividers to provide twenty-one cubes for each tray, or a total of sixty-three cubes for the three trays.

CONTROL

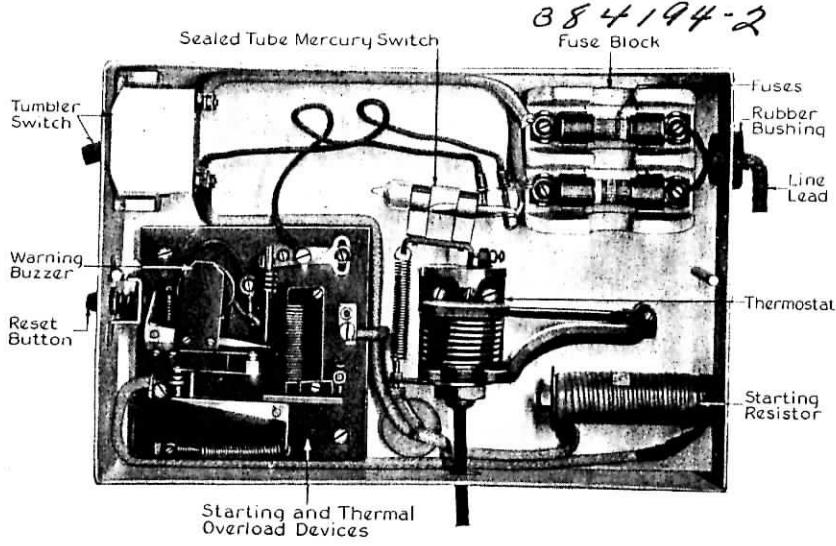
Complete automatic temperature and current control are provided.

A control box on the front of the unit contains a manually-operated switch for disconnecting the machine, for defrosting or any other purpose.

The control box also contains an automatic thermostatic switch for starting and stopping the machine in response to temperature changes, a relay for transferring motor connections from starting to running position and a thermal, time-limit relay for protecting the motor from overload damage, also a reset button for a resumption of operation.

The automatic control is so adjusted that a brine temperature is maintained between 16 and 24 degrees, thereby maintaining a continuous cabinet temperature of from 40 to 50 degrees Fahrenheit, which is admittedly the most satisfactory temperature for food preservation.

COOLING TANK SHOWING
ICE TRAYS



THE CONTROL

INSTALLATION

Installation is extremely simple as the refrigerator need only be set up in the desired position and attached to the nearest electric outlet. It can be installed wherever it will prove most convenient as there is no special plumbing or permanent connection to be made. The cooling tank is placed in the cabinet, filled with a solution of salt brine and the refrigerating unit set into place. It is thoroughly portable and can readily be moved.

Features of the General Electric Refrigerator

- Is Completely Enclosed and Self-Contained**
- Requires No Attention for Lubrication**
- Has No External Moving Parts**
- Is Practically Noiseless**
- Is Portable**
- Operates Automatically and Economically**
- Necessitates No Plumbing for Installation**
- Can be Operated from an Electric Outlet**
- Requires No Special Location**



*The one year guarantee against
defective workmanship or material
assures complete satisfaction.*